허 협 력 ふ (PATENT COOPERATION TREATY)

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발신 : 국제조사기관

수신 :	PCT			
LEE, Keon-Joo	101			
Mihwa Bldg. 110-2, Myongryun-dong 4-ga, Chongrogu Seoul 110-524 Republic of Korea	국제조사보고서 및 국제조사기관의 견해서, 또는 국제조사보고서 부작성 선언서 송부 통지서 (PCT 규칙 44.1)			
Cir.i.	발송일 (일/월/년) 22 SEPTEMBER 2004 (22.09.2004)			
출원인 또는 대리인 서류참조기호 P12157-PCT	이후의 절차에 대하여는 아래 1. 및 4. 참조			
국제출원번호	국제출원일			
PCT/KR2004/001478	(일/원/년) 19 JUNE 2004 (19.06.2004)			
출원인 SAMSUNG ELECTRONICS CO., LTD. et al				
1. X 국제보고서 및 국제조사기관의 견해서가 작성되어 이를 송부함을 출원인에게 통지합니다. 조약 제19조의 규정에 의한 보정서 및 설명서의 제출: 희망하는 경우 출원인은 국제출원의 청구의 범위를 보정할 수 있습니다.(조약규칙 46): 기간 보정서 제출기간은 통상 국제조사보고서 송부일부터 2월. 제출처 The international Bureau of WIPO 34, chemin des Colmbetts				
1211 Geneva 20, Switzerland Faxcimile No.: +41 22 740 14 35				
보다 자세한 지침에 대하여는 첨부되는 용지에 기				
│ 2. └ 국제조사보고서가 작성되지 아니할 것이며 조약 제 ──── 견해서가 송부됨을 출원인에게 통지합니다.	17조(2)(a)의 규정에 의한 선언서 및 국제조사기관의			
── 결정 통지서의 지정관청에의 송부 신청서와 한 ☐ 이의신청에 대한 결정이 아직 이루어지지 않았지할 것입니다.	- 출원인이 재출한 이의신청 및 이의신청에 대한			
4. 주의사항 우선일부터 18월 만료직후 국제사무국은 국제출원을 공 경우에는 출원인은 국제공개의 기술적 준비가 완료되기 규정에 의한 국제출원 취하서 또는 우선권주장 취하서를	·개합니다. 공개를 하지 않거나 또는 연기할 것을 희망하는 전에 각각의 경우에 따라 조약 규칙 90bis.1 및 90bis.3의 를 국제사무국에 제출하여야 합니다.			
할것이다. 당해 의견서는 공중에 이용가능하게 될 것이\ 일부 지정관청에 대하여는 출원인이 우선일부터 30월 <i>"</i>	사지 (일무관정에 대하여는 더 늦을수도 있음) 국내단계의 개 Ⅰ 국제예비심사를 청구하여야 합니다: 그렇지 않은 경우 출원			
다른 지정관청에 대하여는, 우선일부터 19월 이내에 국기 있음)의 기간이 적용될 것입니다.	제예비심사를 청구하지 않더라도 30월(또는 더 늦을 수도			
서식 PCT/IB/301의 부속서류를 참조하기 바라며, 각 특히 안내 제2권 국내단계 및 WIPO 인터넷 사이트를 참조하	키칭마다의 적용기간에 대한 구체적인 사항은 PCT출원인 시기 바랍니다.			

ISA/KR의 명칭 및 우편주소 대한민국 특허칭 302-701 대한민국 대전광역시 서구 둔산동 920번지 정부대전청사

특허청장

전화번호 82-42-481-5281

팩스 번호 82-42-472-7140



PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220			
P12157-PCT	ACTION as we	ON as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year) (Earliest) Priority Date (day/month/year)				
PCT/KR2004/001478	19 JUNE 2004 (19.06.2004)	19 JUNE 2003 (19.06.2003)			
Applicant SAMSUNG ELECTRONICS CO., LTD. et al					
This International search report has been prep to Article 18. A copy is being transmitted to the	ared by this International Searching Authority he International Bureau.	and is transmitted to the applicant according			
This international search report consists of a to	otal of sheets. y of each prior art document cited in this repor	rt.			
language in which it was filed, unles The international search	Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).				
b. With regard to any nucleotide a	and/or amino acid sequence disclosed in the i	international application, see Box No. 1.			
2. Certain claims were found un	searchable (See Box No. II)				
3. Unity of invention is lacking (See Box No. III)				
4. With regard to the title, X the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows:					
5. With regard to the abstract,					
	t by the applicant. cording to Rule 38.2(b), by this Authority as it date of mailing of this international search rep				
6. With regard to the drawings,					
a. the figure of the drawings to be publicated by the applicated because the applicant failed because this figure better changes.	nnt. I to suggest a figure. naracterizes the invention.				
b. none of the figure is to be publis	hed with the abstract.				

International application No.

PCT/KR2004/001478

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H04B 1/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04B1/38, H04M 1/02, H04Q 7/32, H05K 5/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 2002-74870 A(SK TELETECH CO., LTD) 04. OCTOBER 2002 the hole document	1
Α	JP 09-205476 A(HITACHI CO., LTD) 05. AUGUST 1997 the hole document	1
A	KR 2003-27212 A(SAMSUNG ELECTRONICS CO., LTD) 07. APRIL 2003 the hole document	I
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Further documents are listed in the continuation of Box C.

X | See patent family annex.

- Special categories of cited documents:
- A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- 'L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

22 SEPTEMBER 2004 (22.09.2004)

Date of mailing of the international search report

22 SEPTEMBER 2004 (22.09.2004)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, Dong Sung

Telephone No. 82-42-481-5949



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/KR2004/001478

1	ent document d in search report	Publication date	Patent family member(s)	Publication date
KR	2002-74870 A	04. 10. 2002	NONE	
JP	09-205476 A	05. 08. 1997	NONE	
KR	2003-27212 A	07. 04. 2003	NONE	

PATENT COOPERATION TREATY

From the

INTERNATIONAL SEARCHING AUTHORITY

To: LEE, Keon-Joo Mihwa Bldg. 110-2, Myongryun-dong 4-ga, Chongro-gu Seoul 110-524 Republic of Korea		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)	
	nternational filing date 19 JUNE 2004 (19. both national classifica	FOR FURTHER AC S (day/month/year) 06.2004)	2 SEPTEMBER 2004 (22.09.2004) CTION ee paragraph 2 below Priority date(day/month/year) 19 JUNE 2003 (19.06.2003)
Applicant SAMSUNG ELECTRONICS CO	., LTD. et al		
1. This opinion contains indications relating to the following items: Box No. 1 Basis of the opinion			
2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.			
3. For further details, see notes to Form PC	T/ISA/220.		

Name and mailing address of the ISA/KR



Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, Dong Sung

Telephone No. 82-42-481-5949



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/001478

Box No. 1 Basis of this opinion	
	_
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.	
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under	
Rules 12.3 and 23.1(b)).	
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:	
a. type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material	
in wirtten format	
in computer readable form	
c. time of filing/furnishing	
contained in the international application as filed. filed together with the international application in computer readable form.	
furnished subsequently to this Authority for the purposes of search.	
Aministed subsequently to this Authority for the purposes of search.	
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
4. Additional comments:	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITYS

International application No.

PCT/KR2004/001478

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement			All the second second	
Novelty (N)	Claims	1-7		YES
	Claims			NO NO
Inventive step (IS)	Claims	1-7		YES
	Claims			NO
Industrial applicability (IA)	Claims	1-7		YES
	Claims			NO

2. Citations and explanations:

Reference is made to the following document.

D1: 2002-74870(SK TELETECH CO., LTD) 04. OCTOBER 2002

D2: JP 09-205476(HITACHI LTD) 05. AUGUST 1997

1) Novelty and Inventive Step

Claims 1-11 of the present invention relate to a driving apparatus enabling a sliding-type portable wireless terminal to be opened and closed with reduced noise and through multiple stages of opening. The portable wireless terminal may have various functions corresponding to each of the multiple stages. The driving apparatus comprises: a main body; a sub body sliding in a longitudinal direction of the main body, so as to be opened from or closed onto the main body; a first magnetic module provided at a rear surface of the sub body and having one of 3 magnets, the first magnet having three pairs of N and S polarity parts in a twisted arrangement in a longitudinal direction of the first magnet; and the second magnetic module wherein the sub body is stopped at 3 different positions by sliding on the above main body and including N and S polarity.

D1 relates to a slide type portable phone using a slide module which is provided to remarkably reduce the length of the main body of the phone by making an upper housing and a lower housing being able to slide.

D2 relates to a slide type portable phone miniaturized and made thinner by providing a slidable device in part of the case body and to provide portable terminal equipment for protecting the reception part and a liquid crystal display part by a slidable case body.

Neither D1 nor D2 discloses a first and a second magnet module for reducing noise when opening and closing a sub body, and the sub body is opened and closed in a longitudinal direction of the main body by being located at the rear surface and a front surface of a main body.

Therefore, Claims 1-7 meet the criteria set out in PCT Article 33(2)-(3).

2) Industrial Applicability (PCT Article 33(4))

Claims 1-7 meet the criteria set out in PCT Article 33(4) because Claims 1-7 are considered to

be industrially applicable.